

IN THE SPECIFICATION:

Page 1, lines 7 to 18, replace the paragraphs with the following amended paragraphs.

The invention relates to pumps incorporating a piezo electric pump element. The invention further relates to a device implementing a pump using the principles of the pump element having piezo electric properties for generating pressure differences.

BACKGROUND OF THE INVENTION

In audiological equipment a pump is in most cases provided for establishing a pressure difference in the ear canal in relation to the existing atmospheric pressure. This comprises both pressure levels above and below the existing atmospheric pressure. Such pressure difference is, e.g., created in connection with acoustic measurement in the ear canal in order to determine whether fluid is present in the middle ear, e.g., in connection with Otitis Media (middle ear inflammation).

Page 1, line 29 to page 2, line 7, replace the paragraphs with the following amended paragraphs.

A first objective of the present invention is to provide a measuring device for measurement in the ear canal [7] which has a more reliable function, especially in long-term use.

A second objective is to provide a pump [7] which is suitable for use in a measuring device for measurement in the ear canal.

SUMMARY OF THE INVENTION

According to the invention the first objective is achieved by means of a measuring device ~~as defined in claim 1~~ which includes a probe for insertion into an ear canal in a sealing manner and having an opening for transport of air into or out of the ear canal, and a pump for providing a pressure difference in relation to a surrounding atmospheric pressure, the pump including a housing with openings for inlet and/or outlet, where within the housing a piston element having a piezo electric properties is disposed, one opening in the pump being operatively connected to the opening in the probe.

Page 2, lines 28 and 29, replace the paragraph with the following amended paragraph.

According to the invention, the second objective is achieved by means of a pump ~~as defined in claim 6~~ which includes a housing with an inlet opening and an outlet opening and a piston element having piezo electric properties in the housing, and valve elements in the inlet opening and the outlet opening valve for controlling the inlet and outlet, the valve elements having piezo electric properties.